What Is Claimed Is:

- 1. A diverter actuation system for causing the movement of a diverter having a diverter drive, the actuation system comprising:
 - a) a drive frame assembly connectable to the diverter;
 - b) a crank arm assembly connectable to the diverter drive;
 - c) a screw assembly connected to the drive frame assembly and including a screw connected to the crank arm assembly, the screw assembly configured to cause pivotal movement of the crank arm assembly; and
 - d) a drive motor connected to the screw assembly to cause rotational movement of the screw.
- 2. The actuation system as claimed in Claim 1 wherein the screw assembly further includes a rotatable rod attached to the drive motor, and wherein the screw is a ball screw attached around the rotatable rod such that as the drive motor rotates the rotatable rod, the ball screw moves linearly along the rotatable rod.
- 3. The actuation system as claimed in Claim 1 wherein the drive motor is a variable frequency motor.
- 4. The actuation system as claimed in Claim 1 further comprising a drive lockout assembly connected between the drive motor and the screw assembly to regulate movement of the screw.
- 5. The actuation system as claimed in Claim 1 wherein the diverter drive is a toggle tube, the drive frame assembly including a first frame plate and a second frame plate, the first frame plate and the second frame plate each including a toggle tube port for retaining the toggle tube therein.
- 6. The actuation system as claimed in Claim 5 wherein the drive frame assembly further includes a pivot pin rotatably affixed to the first drive frame plate and the second drive frame plate, the pivot pin further rotatably connected to the screw assembly.

- 7. The actuation system as claimed in Claim 6 wherein the crank arm assembly includes a first crank arm plate, a second crank arm plate and a toggle tube bushing, wherein the toggle tube bushing retains the toggle tube therein, the first crank arm plate and the second crank arm plate each including at a first end thereof a bushing port for retaining therein the toggle tube bushing, and wherein the first crank arm plate and the second crank arm plate each includes at a second end thereof attachment pins for attaching the first crank arm plate and the second crank arm plate to the screw.
- 8. The actuation system as claimed in Claim 7 wherein the screw assembly further includes a rotatable rod attached to the drive motor, and wherein the screw is a ball screw attached around the rotatable rod such that as the drive motor rotates the rotatable rod, the ball screw moves linearly along the rotatable rod.
- 9. The actuation system as claimed in Claim 8 wherein the screw assembly further includes a support plate for rotatably retaining the rotatable rod thereon, and wherein the support plate includes at a first end thereof a stanchion with two ports for retaining therein the pivot pin of the drive frame assembly.
- 10. The actuation system as claimed in Claim 9 further comprising a hub seal assembly for rotatably retaining the toggle tube to the drive frame assembly.
- 11. The actuation system as claimed in Claim 10 further comprising a drive lockout assembly connected between the drive motor and the screw assembly to restrict movement of the ball screw.